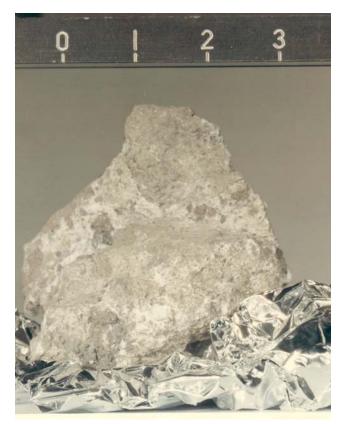
68035

Cataclastic Anorthosite 21 grams



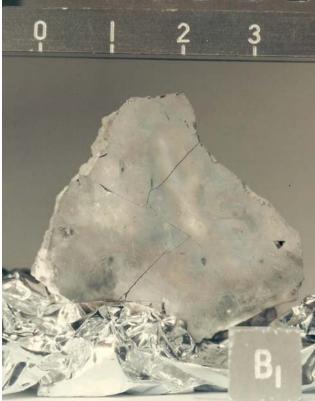


Figure 1 a, b: Front and back of 68035. Scale is in cm. S72-40517and S72-40516.

Introduction

68035 was picked up separately from the surface adjacent to soil sample 68500 and rake sample 68510.

It contains a glass-coated white anorthosite, but the shiny glass coat is reported to have had a blue-green sheen to it. Micropoikilitic impact melt breccia surrounds the white anorthosite clast (figure 3). There is a thin section of each lithology – but no petrographic description nor mineral analyses.

Chemistry

The glass coating has been analyzed by See et al. (1986) and Morris et al. (1986) and the interior white rock has been roughly analyzed by See et al. (table).

Radiogenic age dating

Not

Cosmogenic isotopes and exposure ages

Rancitelli et al. (1973) determined the cosmic-ray-induced activity of 22 Na = 74 dpm/kg., 26 Al = 211 dpm/kg.

Processing

The bulk sample is in two pieces. There are two thin section (each different).

This thing kind of reminds me of a cheese sandwich.

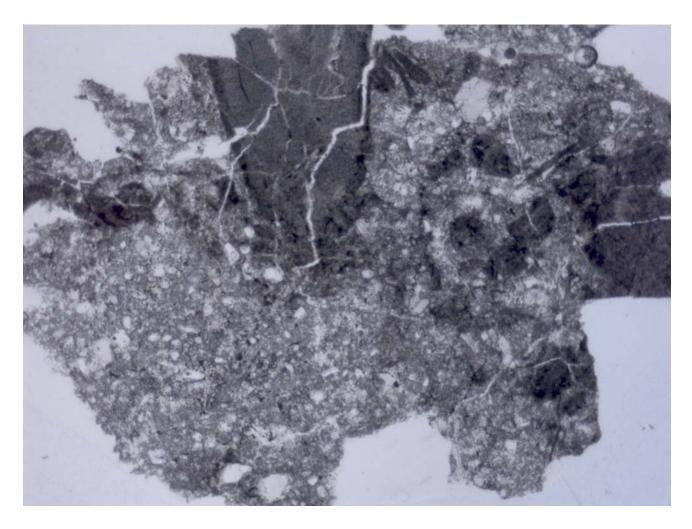


Figure 2: Photomicrograph of thin section of 68035 by C Meyer. 2 mm across

Table 1. Chemical composition of 68035

Table 1. Chemical composition of 6						
reference weight	glass Morris8 See87	7	Rancite	lli73	anor See87	
SiO2 % TiO2 Al2O3 FeO MnO	44.5 0.4 25.91 5.88	(b) (a) (a) (a)			45.29 0.15 31.87 2.18 0.04	(b) (b) (b) (b)
MgO CaO Na2O K2O P2O5 S % sum	7.54 14.5 0.48 0.09	(b) (b) (a) (a)	0.073	(c)	1.91 17.77 0.64 0.06	(b) (b) (b) (b)
Sc ppm V	6.6	(a)				
Cr Co Ni Cu Zn Ga Ge ppb As Se Rb Sr Y Zr Nb Mo Ru Rh Pd ppb Ag ppb Cd ppb In ppb Sn ppb Sb ppb Te ppb	650 31 5.08	(a) (a) (a)				
Cs ppm Ba La	290 7.09	(a) (a)				
Ce Pr	19.8	(a)				
Nd Sm Eu	3.24 1.19	(a) (a)				
Gd Tb Dy Ho Er	0.71	(a)				
Tm Yb Lu Hf Ta W ppb Re ppb Os ppb Ir ppb Pt ppb	2.38 0.36 2.39 0.33	(a) (a) (a) (a)				
Au ppb Th ppm U ppm technique:	1.89 0.52 <i>(a) INA</i>	(a) (a) <i>A, (b</i>	0.91 0.23), (c) rad	(c) (c) liation	count.	

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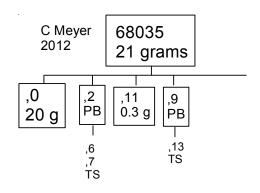




Figure 3: 68035 had a penetrating fracture down the middle. These are to two halves. S72-40518



Figure 4: Processing photo of 68035. As you can see, the anorthosite clast is not very thich. Cube is 1 cm. S82-27856